

**MULTIMEDIA AND SCENT STORAGE CARTRIDGE DESIGN HAVING
ELECTROSTATIC SCENT RELEASE AND METHODS FOR USING SAME**

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COMPLETE LIST OF CLAIMS

1. **(Withdrawn)** A scent- and multimedia-bearing card for use with a separate scent release and multimedia playback system, the scent- and multimedia-bearing card comprising:

10 a scent storage medium for storing at least one scent;
an encapsulated multimedia storage medium for storing multimedia information;
and
scent release and multimedia playback control information for use by the scent release and multimedia playback system in coordinating scent release and multimedia
15 playback from the scent- and multimedia-bearing card.

2. **(Withdrawn)** A detachable scent- and multimedia-bearing card for use with a separate scent release and multimedia playback system, the scent- and multimedia-bearing card comprising:

20 a scent storage medium for storing at least one scent; and
an encapsulated or detachable multimedia storage medium for storing multimedia information.

3. **(Withdrawn)** The scent- and multimedia-bearing card of claim 1 wherein the encapsulated multimedia storage medium comprises a Type II DVD-RAM-like cassette
25 device, the Type II DVD-RAM-like cassette device having a housing structure encapsulating a removable DVD-RAM or DVD disc.

4. **(Withdrawn)** The scent- and multimedia-bearing card of claim 1 wherein the scent storage medium stores a plurality of scents.

5. **(Withdrawn)** The scent- and multimedia-bearing card of claim 1 wherein the scent storage medium stores at least one fragrance.

5 6. **(Withdrawn)** The scent- and multimedia-bearing card of claim 1 wherein the scent storage medium stores at least one aroma.

7. **(Withdrawn)** The scent- and multimedia-bearing card of claim 1 wherein the scent storage medium stores at least one flavor.

8. **(Withdrawn)** The scent- and multimedia-bearing card of claim 1 wherein the
10 scent storage medium stores at least one air-borne therapeutic agent.

9. **(Withdrawn)** The scent- and multimedia-bearing card of claim 1 wherein the scent storage medium stores at least one air-borne medicine.

10. **(Withdrawn)** The scent- and multimedia-bearing card of claim 1 wherein the scent storage medium comprises:

15 a housing;

a scent storage reservoir contained in the housing; and

a scent release unit connected to the scent storage reservoir for releasing scent from the scent- and multimedia-bearing card.

11. **(Withdrawn)** The detachable scent- and multimedia-bearing card of claim 2
20 wherein the scent storage medium comprises:

a housing;

a scent storage reservoir contained in the housing; and

a scent release unit connected to the scent storage reservoir for releasing scent from the detachable scent- and multimedia-bearing card.

12. **(Withdrawn)** The scent- and multimedia-bearing card of claim 1 wherein the scent release unit comprises:

5 a scent release chamber for containing scent just prior to release; and
a tube connecting the scent reservoir to the scent chamber.

13. **(Withdrawn)** The detachable scent- and multimedia-bearing card of claim 11 wherein the scent release unit comprise:

10 a scent release chamber for containing scent just prior to release; and
a tube connecting the scent reservoir to the scent chamber.

14. **(Withdrawn)** The scent- and multimedia-bearing card of claim 12 wherein the scent release chamber comprises a three-dimensional region enclosed on all sides except having a scent release opening facing upwards for releasing scent from the scent release chamber, and wherein the scent release unit further comprise:

15 a cover for covering the scent release opening, wherein the cover is moveable between at least two positions, a first position wherein the scent release opening is substantially sealed thereby preventing scent from escaping from the scent release chamber, and a second position, wherein the cover is displaced from the opening in the scent release chamber, wherein the displacement of the cover permits scent to escape
20 from the scent release chamber during scent release operations.

15. **(Original)** The detachable scent- and multimedia-bearing card of claim 13 wherein the scent release chamber comprise a three-dimensional region enclosed on all

sides except having a scent release opening facing upwards for releasing scent from the scent release chamber, and wherein the scent release unit further comprise:

5 a cover for covering the scent release opening, wherein the cover is moveable between at least two positions, a first position wherein the scent release opening is substantially sealed thereby preventing scent from escaping from the scent release chamber, and a second position, wherein the cover is displaced from the opening in the scent release chamber, wherein the displacement of the cover permits scent to escape from the scent release chamber during scent release operations.

16. (Currently Amended) A detachable scent- and multimedia-bearing card for use
10 with a separate scent release and multimedia playback system, the detachable scent- and multimedia-bearing card comprising:

a housing;

at least one scent release unit contained in the housing, wherein the scent release unit further comprise a cover for covering the scent release opening, wherein the cover is
15 moveable between at least two positions, a first position wherein the scent release opening is substantially sealed thereby preventing scent from escaping from the scent release chamber, and a second position, wherein the cover is displaced from the opening in the scent release chamber, wherein the displacement of the cover permits scent to escape from the scent release chamber during scent release operations;

20 at least one scent reservoir connected to the scent release chamber for containing scent just prior to release; and

at least one scent release chamber connected to at least one scent release unit for releasing scent from the detachable scent- and multimedia-bearing card, wherein the

scent release chamber comprise a three-dimensional region enclosed on all sides except having a scent release opening facing upwards for releasing scent from the scent release chamber.

17. **(Withdrawn)** The scent- and multimedia-bearing card of claim 14 wherein the
5 cover is made from electromagnetic material and wherein the scent release unit further comprise:

an electromagnet for moving the cover from the first position to the second position; and

electromagnet control means for controlling the operation of the electromagnet.

10 18. **(Original)** The detachable scent- and multimedia-bearing card of claim 16 wherein the cover is made from electromagnetic material and wherein the scent release unit further comprises:

an electromagnetic mechanism means for moving the cover from the first position to the second position; and

15 electromagnetic control means for controlling the operation of the electromagnetic mechanism means.

19. **(Withdrawn)** The scent- and multimedia-bearing card of claim 17 wherein the electromagnet control means further comprises:

20 wiring for receiving control signals from the scent release and multimedia playback system, the control signals controlling the operation of the electromagnet.

20. **(Original)** The detachable scent- and multimedia-bearing card of claim 18 wherein the electromagnetic control means further comprises:

wiring for receiving control signals from the scent release and multimedia playback system, the control signals controlling the operation of the electromagnetic mechanism means.

21. **(Withdrawn)** The scent- and multimedia-bearing card of claim 17

5 further comprising:

a spring connecting the cover to the scent release unit, wherein the spring maintains the cover in the first, closed position until the electromagnet is energized, when the cover moves to the open, second position, and wherein the spring returns the cover to the closed position after the electromagnet is de-energized.

10 22. **(Original)** The detachable scent- and multimedia-bearing card of claim 18 further comprising:

a spring connecting the cover to the scent release unit, wherein the spring maintains the cover in the first, closed position until the electromagnetic mechanism means is energized, when the cover moves to the open, second position, and wherein the
15 spring returns the cover to the closed position after the electromagnetic mechanism means is de-energized.

23. **(Withdrawn)** The scent- and multimedia-bearing card of claim 21 wherein the spring comprises a spiral spring.

24. **(Original)** The detachable scent- and multimedia-bearing card of claim 22
20 wherein the spring comprises a spiral spring.

25. **(Withdrawn)** The scent- and multimedia-bearing card of claim 17 wherein the scent release unit further comprise:

a hinge connecting the cover to the scent release unit, whereby the cover can rotate about the hinge while opening and closing; and

a leaf spring cooperating with the hinge to return the cover to a closed position when the electromagnet is not energized.

- 5 26. **(Original)** The detachable scent- and multimedia-bearing card of claim 18 wherein the scent release unit further comprises:

a hinge connecting the cover to the scent release unit, whereby the cover can rotate about the hinge while opening and closing; and

a leaf spring cooperating with the hinge to return the cover to a closed position
10 when the electromagnetic mechanism means is not energized.

27. **(Withdrawn)** The scent- and multimedia-bearing card of claim 12 wherein the scent release unit further comprises an absorbent material positioned within the scent release chamber for momentarily retaining scent to be released from the scent- and multimedia-bearing card.

- 15 28. **(Withdrawn)** The scent- and multimedia-bearing card of claim 10 wherein the scent release unit further comprises:

electrostatic scent release apparatus for ionizing scent in the scent release unit.

29. **(Withdrawn)** The detachable scent- and multimedia-bearing card of claim 11 wherein the scent release unit further comprise:

20 electrostatic scent release apparatus for ionizing scent in the scent release unit.

30. **(Withdrawn)** The scent- and multimedia-bearing card of claim 28 wherein the electrostatic scent release apparatus further comprise:

corona discharge pin for creating corona discharge to ionize scent; and

wiring for connecting the corona discharge pin to an external voltage source.

31. **(Withdrawn)** The detachable scent- and multimedia-bearing card of claim 29

wherein the electrostatic scent release apparatus further comprises:

corona discharge pin for creating corona discharge to ionize scent; and

5 wiring for connecting the corona discharge pin to an external voltage source.

32. **(Withdrawn)** The scent- and multimedia-bearing card of claim 30 wherein the

electrostatic scent release apparatus further comprises:

a grid opposite from the corona discharge pin for attracting ionized scent
molecules to assist in the scent release process.

10 33. **(Withdrawn)** The detachable scent- and multimedia-bearing card of claim 31

wherein the electrostatic scent release apparatus further comprises:

a grid opposite from the corona discharge pin for attracting ionized scent
molecules to assist in the scent release process; and

15 wiring for connecting the grid to a ground or an external voltage source with a
opposite charge to the corona discharge pin.

34. **(Withdrawn)** The scent- and multimedia-bearing card of claim 17 wherein the
scent release unit further comprises:

electrostatic scent release apparatus for ionizing scent in the scent release unit.

35. **(Original)** The detachable scent- and multimedia-bearing card of claim 16

20 wherein the scent release unit further comprises:

electrostatic scent release apparatus for ionizing scent in the scent release unit.

36. **(Withdrawn)** The scent- and multimedia-bearing card of claim 34 wherein the
electrostatic scent release apparatus further comprise:

corona discharge pin for creating corona discharge to ionize scent; and
wiring for connecting the corona discharge pin to an external voltage source.

37. **(Original)** The detachable scent- and multimedia-bearing card of claim 35
wherein the electrostatic scent release apparatus further comprises:

5 corona discharge pin for creating corona discharge to ionize scent; and
wiring for connecting the corona discharge pin to an external voltage source.

38. **(Withdrawn)** The scent- and multimedia-bearing card of claim 36 wherein the
cover and electromagnet are coated in epoxy, wherein the epoxy protects the cover and
electromagnet during corona discharge.

10 39. **(Original)** The detachable scent- and multimedia-bearing card of claim 18
wherein the cover and electromagnetic mechanism means are coated in epoxy or high
voltage insulation materials, wherein the epoxy or high voltage insulation materials
protects the cover and electromagnetic mechanism means during corona discharge.

40. **(Withdrawn)** The scent- and multimedia-bearing card of claim 36 wherein the
15 electrostatic scent release apparatus further comprises:

a grid opposite from the corona discharge pin for attracting ionized scent
molecules to assist in the scent release process.

41. **(Original)** The detachable scent- and multimedia-bearing card of claim 37
wherein the electrostatic scent release apparatus further comprises:

20 a grid opposite from the corona discharge pin for attracting ionized scent
molecules to assist in the scent release process; and

wiring for connecting the grid to ground or an external voltage source with a
opposite charge to the corona discharge pin.

42. **(Withdrawn)** A scent-bearing card for use with encapsulated optical multimedia storage devices of the type wherein an optical disc is contained in a storage housing, the scent-bearing card and encapsulated optical multimedia storage devices for use with a separate scent release and multimedia playback system to create an immersive multimedia experience comprised of olfactory and visual or sound elements, the scent-bearing card comprising:

a scent storage medium for storing at least one scent; and

scent release control information for use by the scent release and multimedia playback system in controlling scent release from the scent-bearing card.

43. **(Withdrawn)** A attachable scent-bearing card for use with a separate scent release and multimedia playback system to create an immersive multimedia experience comprised of olfactory and visual or sound elements, the attachable scent-bearing card comprising:

a scent storage medium for storing at least one scent; and

scent release control information for use by the scent release and multimedia playback system in controlling scent release from the attachable scent-bearing card.

44. **(Withdrawn)** The scent- and multimedia-bearing card of claim 42 wherein the encapsulated multimedia storage optical multimedia storage device comprises a Type II DVD-RAM, like cassette device, the Type II DVD-RAM-like cassette device having a housing structure encapsulating a removable DVD-RAM or DVD disc.

45. **(Withdrawn)** The scent-bearing card of claim 42 wherein the scent storage medium stores a plurality of scents.

46. **(Withdrawn)** The scent-bearing card of claim 42 wherein the scent storage medium stores at least one fragrance.

47. **(Withdrawn)** The scent-bearing card of claim 42 wherein the scent storage medium stores at least one aroma.

5 48. **(Withdrawn)** The scent-bearing card of claim 42 wherein the scent storage medium stores at least one flavor.

49. **(Withdrawn)** The scent-bearing card of claim 42 wherein the scent storage medium stores at least one air-borne therapeutic agent.

50. **(Withdrawn)** The scent-bearing card of claim 42 wherein the scent storage
10 medium stores at least one air-borne medicine.

51. **(Withdrawn)** The scent-bearing card of claim 42 wherein the scent storage medium comprises:

a housing;

a scent storage reservoir contained in the housing; and

15 a scent release unit connected to the scent storage reservoir for releasing scent from the scent-bearing card.

52. **(Withdrawn)** The attachable scent-bearing card of claim 43 wherein the scent storage medium comprise:

a housing;

20 a scent storage reservoir contained in the housing; and

a scent release unit connected to the scent storage reservoir for releasing scent from the attachable scent-bearing card.

53. **(Withdrawn)** The scent-bearing card of claim 51 wherein the scent release unit comprises:

a scent release chamber for containing scent just prior to release; and
a tube connecting the scent reservoir to the scent release chamber.

5 54. **(Withdrawn)** The attachable scent-bearing card of claim 52 wherein the scent release unit comprises:

a scent release chamber for containing scent just prior to release; and
a tube connecting the scent reservoir to the scent release chamber.

55. **(Withdrawn)** The scent-bearing card of claim 53 wherein the scent release
10 chamber comprises a three dimensional region enclosed on all sides except having a scent release opening facing upwards for releasing scent from the scent release chamber, and wherein the scent release unit further comprises:

a cover for covering the scent release opening, wherein the cover is moveable between at least two positions, a first position wherein the scent release opening is
15 substantially sealed thereby preventing scent from escaping from the scent release chamber, and a second position, wherein the cover is displaced from the opening in the scent release chamber, wherein the displacement of the cover permits scent to escape from the scent release chamber during scent release operations.

56. **(Original)** The attachable scent-bearing card of claim 53 wherein the scent
20 release chamber comprise a three dimensional region enclosed on all sides except having a scent release opening facing upwards for releasing scent from the scent release chamber, and wherein the scent release unit further comprises:

a cover for covering the scent release opening, wherein the cover is moveable between at least two positions, a first position wherein the scent release opening is substantially sealed thereby preventing scent from escaping from the scent release chamber, and a second position, wherein the cover is displaced from the opening in the scent release chamber, wherein the displacement of the cover permits scent to escape from the scent release chamber during scent release operations.

57. (Currently Amended) A attachable scent-bearing card for use with a separate scent release and multimedia playback system, the attachable scent-bearing card comprising:

10 a housing;

at least one scent release unit contained in the housing, wherein the scent release unit further comprise a cover for covering the scent release opening, wherein the cover is moveable between at least two positions, a first position wherein the scent release opening is substantially sealed thereby preventing scent from escaping from the scent release chamber, and a second position, wherein the cover is displaced from the opening in the scent release chamber, wherein the displacement of the cover permits scent to escape from the scent release chamber during scent release operations;

at least one scent reservoir connected to the scent release chamber for containing scent just prior to release; and

20 at least one scent release chamber connected to at least one scent release unit for releasing scent from the attachable scent-bearing card, wherein the scent release chamber comprise a three-dimensional region enclosed on all sides except having a scent release opening facing upwards for releasing scent from the scent release chamber.

58. **(Withdrawn)** The scent-bearing card of claim 55 wherein the cover is made from electromagnetic material and wherein the scent release unit further comprise:

an electromagnet for moving the cover from the first position to the second position; and

5 electromagnet control means for controlling the operation of the electromagnet.

59. **(Original)** The attachable scent-bearing card of claim 57 wherein the cover is made from electromagnetic material and wherein the scent release unit further comprises:

an electromagnetic mechanism means for moving the cover from the first position to the second position; and

10 electromagnetic control means for controlling the operation of the electromagnetic mechanism means.

60. **(Withdrawn)** The scent-bearing card of claim 58 wherein the electromagnet control means further comprises:

15 wiring for receiving control signals from the scent release and multimedia playback system, the control signals controlling the operation of the electromagnet.

61. **(Original)** The attachable scent-bearing card of claim 59 wherein the electromagnetic control means further comprises:

20 wiring for receiving control signals from the scent release and multimedia playback system, the control signals controlling the operation of the electromagnetic mechanism means.

62. **(Withdrawn)** The scent-bearing card of claim 58 further comprising:

a spring connecting the cover to the scent release unit, wherein the spring maintains the cover in the first closed position until the electromagnet is energized, when

the cover moves to the open, second position, and wherein the spring returns the cover to the closed position after the electromagnet is de-energized.

63. **(Original)** The attachable scent-bearing card of claim 59 further comprising:

5 a spring connecting the cover to the scent release unit, wherein the spring maintains the cover in the first, closed position until the electromagnetic mechanism means is energized, when the cover moves to the open, second position, and wherein the spring returns the cover to the closed position after the electromagnetic mechanism means is de-energized.

64. **(Withdrawn)** The scent-bearing card of claim 62 wherein the spring comprises a
10 spiral spring.

65. **(Original)** The attachable scent-bearing card of claim 63 wherein the spring comprises a spiral spring.

66. **(Withdrawn)** The scent-bearing card of claim 58 wherein the scent release unit further comprises:

15 a hinge connecting the cover to the scent release unit, whereby the cover can rotate about the hinge while opening and closing; and
a leaf spring cooperating with the hinge to return the cover to a closed position when the electromagnet is not energized.

67. **(Original)** The attachable scent-bearing card of claim 59 wherein the scent
20 release unit further comprises:

a hinge connecting the cover to the scent release unit, whereby the cover can rotate about the hinge while opening and closing; and

a leaf spring cooperating with the hinge to return the cover to a closed position when the electromagnetic mechanism means is not energized.

68. **(Withdrawn)** The scent-bearing card of claim 51 wherein the scent release unit further comprises an absorbent material positioned within the scent release chamber for momentarily retaining scent to be released from the scent-bearing card.

69. **(Withdrawn)** The scent-bearing card of claim 51 wherein the scent release unit further comprises:

electrostatic scent release apparatus for ionizing scent in the scent release unit.

70. **(Withdrawn)** The attachable scent-bearing card of claim 52 wherein the scent release unit further comprises:

electrostatic scent release apparatus for ionizing scent in the scent release unit.

71. **(Withdrawn)** The scent-bearing card of claim 68 wherein the electrostatic scent release apparatus further comprises:

corona discharge pin for creating corona discharge to ionize scent; and

wiring for connecting the corona discharge pin to an external voltage source.

72. **(Original)** The attachable scent-bearing card of claim 57 wherein the scent release unit further comprises:

electrostatic scent release apparatus for ionizing scent in the scent release unit.

73. **(Original)** The attachable scent-bearing card of claim 72 wherein the electrostatic scent release apparatus further comprises:

corona discharge pin for creating corona discharge to ionize scent; and

wiring for connecting the corona discharge pin to an external voltage source.

74. **(Withdrawn)** The scent-bearing card of claim 71 wherein the electrostatic scent release apparatus further comprises:

a grid opposite from the corona discharge pin for attracting ionized scent molecules to assist in the scent release process.

5 75. **(Original)** The attachable scent-bearing card of claim 73 wherein the electrostatic scent release apparatus further comprises:

a grid opposite from the corona discharge pin for attracting ionized scent molecules to assist in the scent release process; and

10 wiring for connecting the grid to a ground or an external voltage source with a opposite charge to the corona discharge pin.

76. **(Withdrawn)** The scent-bearing card of claim 58 wherein the scent release unit further comprises:

electrostatic scent release apparatus for ionizing scent in the scent release unit.

15 77. **(Withdrawn)** The scent-bearing card of claim 76 wherein the electrostatic scent release apparatus further comprises:

corona discharge pin for creating corona discharge to ionize scent; and

wiring for connecting the corona discharge pin to an external voltage source.

78. **(Original)** The attachable scent-bearing card of claim 72 wherein the electrostatic scent release apparatus further comprises:

20 corona discharge pin for creating corona discharge to ionize scent; and

wiring for connecting the corona discharge pin to an external voltage source.

79. **(Currently Amended)** The attachable scent-bearing card of claim 72 wherein the electrostatic scent release apparatus further comprises:

corona discharge materials having sharp edge for creating corona discharge to ionize scent; and

5 wiring for connecting the corona discharge materials having sharp edge to an external voltage source.

80. **(Withdrawn)** The scent-bearing card of claim 58 wherein the cover and electromagnet are coated in epoxy, wherein the epoxy protects the cover and electromagnet during corona discharge.

10 81. **(Original)** The attachable scent-bearing card of claim 59 wherein the cover and electromagnetic mechanism means are coated in epoxy or high voltage insulation materials, wherein the epoxy or high voltage insulation materials protects the cover and electromagnetic mechanism means during corona discharge.

82. **(Withdrawn)** The scent-bearing card of claim 76 wherein the electrostatic scent
15 release apparatus further comprises:

a grid opposite from the corona discharge pin for attracting ionized scent molecules to assist in the scent release process.

83. **(Original)** The attachable scent-bearing card of claim 79 wherein the electrostatic scent release apparatus further comprises:

20 a grid opposite from the corona discharge pin for attracting ionized scent molecules to assist in the scent release process; and

wiring for connecting the grid to ground or an external voltage source with a opposite charge to the corona discharge pin.

84. **(Currently Amended)** The attachable scent-bearing card of claim 79 wherein the electrostatic scent release apparatus further comprises:

5 a grid opposite from the corona discharge materials having sharp edge for attracting ionized scent molecules to assist in the scent release process; and wiring for connecting the grid to ground or an external voltage source with a opposite charge to the corona discharge materials having sharp edge.

85. **(Withdrawn)** The grid opposite from the corona discharge pin of claim 33 wherein the opposite charged grid further neutralize the ionized scent molecules to assist
10 in the scent release process.

86. **(Withdrawn)** The scent-bearing card of claim 29 wherein the electrostatic scent release apparatus further comprises:

a shield surround the corona discharge pin for focusing ionized scent molecules to assist in the scent release process; and
15 wiring for connecting the shield to a ground or an external voltage source with a same charge as the corona discharge pin.

87. **(Withdrawn)** The corona discharge pin for creating corona discharge to ionize scent of claim 31 wherein the discharge pin is constructed with needle or capillary tube.

88. **(Withdrawn)** The corona discharge needle or capillary tube of claim 87 wherein
20 the discharge needle or capillary tube is made by conductive materials.

89. **(Withdrawn)** The corona discharge needle or capillary tube of claim 87 wherein the discharge needle or capillary tube is made by nonconductive materials.

90. **(Original)** The grid opposite from the corona discharge pin of claim 41 wherein the opposite charged grid further neutralize the ionized scent molecules to assist in the scent release process.

91. **(Withdrawn)** The scent-bearing card of claim 35 wherein the electrostatic scent
5 release apparatus further comprises:

a shield surround the corona discharge pin for focusing ionized scent molecules to assist in the scent release process; and

wiring for connecting the shield to a ground or an external voltage source with a same charge as the corona discharge pin.

10 92. **(Withdrawn)** The corona discharge pin for creating corona discharge to ionize scent of claim 37 wherein the discharge pin is constructed with needle or capillary tube.

93. **(Withdrawn)** The corona discharge needle or capillary tube of claim 92 wherein the discharge needle or capillary tube is made by conductive materials.

94. **(Withdrawn)** The corona discharge needle or capillary tube of claim 92 wherein
15 the discharge needle or capillary tube is made by nonconductive materials.

95. **(Original)** The grid opposite from the corona discharge pin of claim 75 wherein the opposite charged grid further neutralize the ionized scent molecules to assist in the scent release process.

96. **(Withdrawn)** The scent-bearing card of claim 72 wherein the electrostatic scent
20 release apparatus further comprises:

a shield surround the corona discharge pin for focusing ionized scent molecules to assist in the scent release process; and

wiring for connecting the shield to a ground or an external voltage source with a same charge as the corona discharge pin.

97. **(Withdrawn)** The corona discharge pin for creating corona discharge to ionize scent of claim 73 wherein the discharge pin is constructed with needle or capillary tube.

5 98. **(Withdrawn)** The corona discharge needle or capillary tube of claim 97 wherein the discharge needle or capillary tube is made by conductive materials.

99. **(Withdrawn)** The corona discharge needle or capillary tube of claim 97 wherein the discharge needle or capillary tube is made by nonconductive materials.

10 100. **(Original)** The grid opposite from the corona discharge pin of claim 84 wherein the opposite charged grid further neutralize the ionized scent molecules to assist in the scent release process.

101. **(Currently Amended)** The grid opposite from the corona discharge materials having sharp edge of claim 84 wherein the opposite charged grid further neutralize the ionized scent molecules to assist in the scent release process.

15 102. **(Withdrawn)** The scent-bearing card of claim 79 wherein the electrostatic scent release apparatus further comprises:

a shield surround the corona discharge pin for focusing ionized scent molecules to assist in the scent release process; and

20 wiring for connecting the shield to a ground or an external voltage source with a same charge as the corona discharge pin.

103. **(Withdrawn)** The corona discharge pin for creating corona discharge to ionize scent of claim 77 wherein the discharge pin is constructed with needle or capillary tube.

104. **(Withdrawn)** The corona discharge needle or capillary tube of claim 103 wherein the discharge needle or capillary tube is made by conductive materials.

105. **(Withdrawn)** The corona discharge needle or capillary tube of claim 103 wherein the discharge needle or capillary tube is made by nonconductive materials.